



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Edward J. Kroliczek et al.      Art Unit : Unknown  
Serial No. : 10/676,265      Examiner : Unknown  
Filed : October 2, 2003  
Title : EVAPORATOR FOR A HEAT TRANSFER SYSTEM

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants submit the references listed on the attached form PTO-1449. In accordance with the PTO's waiver of 37 CFR 1.98 (a)(2)(iii), only copies of any foreign patent documents and/or non-patent references are enclosed. This statement is being filed before the receipt of a first Office Action on the merits.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: December 3, 2004

Diana DiBerardino  
Diana DiBerardino  
Reg. No. 45,653

Fish & Richardson P.C.  
1425 K Street, N.W.  
11th Floor  
Washington, DC 20005-3500  
Telephone: (202) 783-5070  
Facsimile: (202) 783-2331



Substitute Form PTO-1449

(Modified)

U.S. Department of Commerce  
Patent and Trademark Office

Attorney's Docket No.

13442-009001

Application No.

10/676,265

**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant

Edward J. Krolczek et al.

Filing Date

October 2, 2003

Group Art Unit

3743

**U.S. Patent Documents**

| Examiner Initial | Desig. ID | Document Number | Publication Date | Patentee          | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|-----------------|------------------|-------------------|-------|----------|----------------------------|
|                  | AA        | 3,490,718       | 01/20/1970       | A. Vary           |       |          |                            |
|                  | AB        | 3,613,778       | 10/19/1971       | Feldman, Jr.      |       |          |                            |
|                  | AC        | 4,046,190       | 09/06/1977       | Marcus et al.     |       |          |                            |
|                  | AD        | 4,087,893       | 05/09/1978       | Sata et al.       |       |          |                            |
|                  | AE        | 4,116,266       | 09/26/1978       | Sawata et al.     |       |          |                            |
|                  | AF        | 4,170,262       | 10/09/1979       | Marcus et al.     |       |          |                            |
|                  | AG        | 4,503,483       | 03/05/1985       | Basiulis          |       |          |                            |
|                  | AH        | 4,685,512       | 08/11/1987       | Edelstein et al.  |       |          |                            |
|                  | AI        | 4,770,238       | 09/13/1988       | Owen              |       |          |                            |
|                  | AJ        | 4,830,718       | 05/16/1989       | Stauffer          |       |          |                            |
|                  | AK        | 4,883,116       | 11/28/1989       | Seidenberg et al. |       |          |                            |
|                  | AL        | 5,002,122       | 03/26/1991       | Sarraf et al.     |       |          |                            |
|                  | AM        | 5,335,720       | 08/09/1994       | Ogushi et al.     |       |          |                            |
|                  | AN        | 5,642,776       | 07/01/1997       | Meyer, IV et al.  |       |          |                            |
|                  | AO        | 5,725,049       | 03/10/1989       | Swanson et al.    |       |          |                            |
|                  | AP        | 5,761,037       | 06/02/1998       | Anderson et al.   |       |          |                            |
|                  | AQ        | 5,771,967       | 06/30/1998       | Hyman             |       |          |                            |
|                  | AR        | 5,944,092       | 08/31/1999       | Van Oost          |       |          |                            |

**Foreign Patent Documents or Published Foreign Patent Applications**

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Abstract |    |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|----------|----|
|                  |           |                 |                  |                          |       |          | Yes      | No |
|                  | AS        | 0 987 509 A1    | 03/22/2000       | EUROPE                   |       |          |          |    |
|                  | AT        | 2000-055577     | 02/25/2000       | JAPAN                    |       |          | X        |    |

**Other Documents (include Author, Title, Date, and Place of Publication)**

| Examiner Initial | Desig. ID | Document   |
|------------------|-----------|--|
|                  | AU        | W. B. Bienert et al., "The Proof-Of-Feasibility of Multiple Evaporator Loop Heat Pipes", 6 <sup>th</sup> European Symposium on Environmental Systems, May 1997, 6 pages. |

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

|  |  |   |                               |
|--|--|---|-------------------------------|
| Substitute Form PTO-1449<br>(Modified)   | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>13442-009001   | Application No.<br>10/676,265 |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br><br>(37 CFR §1.98(b)) |  | Applicant<br>Edward J. Kroliczek et al. |                               |
|  |  | Filing Date<br>October 2, 2003          | Group Art Unit<br>3743        |

| Other Documents (include Author, Title, Date, and Place of Publication) |           |   |
|---|-----------|---|
| Examiner Initial  | Desig. ID | Document  |
|   | AV        | S. Yun et al., "Design and Test Results of Multi-Evaporator Loop Heat Pipes", SAE Paper No. 1999-01-2051, 29 <sup>th</sup> International Conference on Environmental Systems, July 1999, 7 pages.   |
|   | AW        | Stephane Van Oost et al., "Test Results of Reliable and Very High Capillary Multi-Evaporators/Condenser Loop", 25 <sup>th</sup> International Conference on Environmental Systems, July 10-13, 1995, 12 pages.  |
|   | AX        | E. Yu Kotlyarov et al., "Methods of Increase of the Evaporators Reliability for Loop Heat Pipes and Capillary Pumped Loops", 24th International Conference on Environmental Systems, June 20-23, 1994, 15 pages.  |
|   | AY        | Hoang, "Advanced Capillary Pumped Loop (A-CPL) Project Summary" Contract No.: NAS5-98103, March 1994, pages 1-37.   |
|   | AZ        | Martien Janssen et al., "Measurement and application of performance characteristics of a Free Piston Stirling Cooler", 9 <sup>th</sup> International Refrigeration and Air Conditioning Conference, July 16-19, 2002, 8 pages.  |
|   | AAA       | Yong-Rak Kwon et al., "Operational Characteristics of Stirling Machinery", International Congress of Refrigeration, August 17-22, 2003, 8 pages.  |
|   | ABB       | David M. Berchowitz et al., "Design and Testing of a 40 W Free-Piston Stirling Cycle Cooling Unit", 20 <sup>th</sup> International Conference of Refrigeration, IIR/IIF, Sydney, 1999, 7 pages.   |
|   | ACC       | D.M. Berchowitz Ph. D., "Maximized Performance of Stirling Cycle Refrigerators", Natural working fluids '98 IIR - Gustav Lorentzen Conference: Oslo, Norway, June 2-5, 1998, Fluides actifs naturels conference IIF-Gustav Lorentzen, Journal: Science et technique du froid, 1998 (4) 422-429. |
|   | ADD       | David M. Berchowitz, "Free-Piston Rankine Compression and Stirling Cycle Machines for Domestic Refrigeration", Presented at the Greenpeace Ozon Safe Conference, Washington, DC, October 18-19, 1993.   |
|   | AEE       | Stephen C. Wetty and Fernando Cueva, "Energy Efficient Freezer Installation Using Natural Working Fluids and a Free Piston Stirling Cooler" VI Congreso Iberoamericano De Aire Acondicionado Y Refrigeracion, CIAR 2001, Trabajo No. 96, pp. 199-208, August 15-17, 2001.                       |
|   | AFF       | Emre Oguz et al., "Experimental Investigation Of a Stirling Cycle Cooled Domestic Refrigerator", 9 <sup>th</sup> Proceedings of the International Refrigeration and Air Conditioning Conference at Purdue, 2002; 9 <sup>th</sup> ; Vol. 2, pp. 777-784.   |
|   | AGG       | Seon-Young Kim et al., "The Application of Stirling Cooler to Refrigeration", IECEC-97-Intersociety Energy Conversion Engineering Conference, 1997, Conference 32, Vol. 2, pp. 1023-1026.   |
|   | AHH       | D.M. Berchowitz et al. "Recent Advances in Stirling Cycle Refrigeration", 1995, 19 <sup>th</sup> International Conference of Refrigeration, The Hague, The Netherlands, 8 pages.  |

|  |                 |
|--|-----------------|
| Examiner Signature   | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |